

# Certified AIF-C01 Questions & Exam AIF-C01 Exercise

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## AWS AIF-C01 Exam

### AWS Certified AI Practitioner

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>> Certified AIF-C01 Questions <<

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## Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.</li></ul>

## Amazon AWS Certified AI Practitioner Sample Questions (Q142-Q147):

### NEW QUESTION # 142

A company is building a customer service chatbot. The company wants the chatbot to improve its responses by learning from past interactions and online resources.

Which AI learning strategy provides this self-improvement capability?

- A. Reinforcement learning with rewards for positive customer feedback**
- B. Supervised learning with a continuously updated FAQ database
- C. Supervised learning with a manually curated dataset of good responses and bad responses
- D. Unsupervised learning to find clusters of similar customer inquiries

### Answer: A

Explanation:

Reinforcement learning allows a model to learn and improve over time based on feedback from its environment. In this case, the chatbot can improve its responses by being rewarded for positive customer feedback, which aligns well with the goal of self-improvement based on past interactions and new information.

Option B (Correct): "Reinforcement learning with rewards for positive customer feedback": This is the correct answer as reinforcement learning enables the chatbot to learn from feedback and adapt its behavior accordingly, providing self-improvement capabilities.

Option A: "Supervised learning with a manually curated dataset" is incorrect because it does not support continuous learning from new interactions.

Option C: "Unsupervised learning to find clusters of similar customer inquiries" is incorrect because unsupervised learning does not provide a mechanism for improving responses based on feedback.

Option D: "Supervised learning with a continuously updated FAQ database" is incorrect because it still relies on manually curated data rather than self-improvement from feedback.

AWS AI Practitioner Reference:

Reinforcement Learning on AWS: AWS provides reinforcement learning frameworks that can be used to train models to improve

their performance based on feedback.

#### NEW QUESTION # 143

A company wants to create an application to summarize meetings by using meeting audio recordings.

Select and order the correct steps from the following list to create the application. Each step should be selected one time or not at all. (Select and order THREE.)

- \* Convert meeting audio recordings to meeting text files by using Amazon Polly.
- \* Convert meeting audio recordings to meeting text files by using Amazon Transcribe.
- \* Store meeting audio recordings in an Amazon S3 bucket.
- \* Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.
- \* Summarize meeting text files by using Amazon Bedrock.
- \* Summarize meeting text files by using Amazon Lex.

Step 1:	<p>Select...</p> <p>Select...</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Polly.</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Transcribe.</p> <p>Store meeting audio recordings in an Amazon S3 bucket.</p> <p>Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.</p> <p>Summarize meeting text files by using Amazon Bedrock.</p> <p>Summarize meeting text files by using Amazon Lex.</p>
Step 2:	<p>Select...</p> <p>Select...</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Polly.</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Transcribe.</p> <p>Store meeting audio recordings in an Amazon S3 bucket.</p> <p>Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.</p> <p>Summarize meeting text files by using Amazon Bedrock.</p> <p>Summarize meeting text files by using Amazon Lex.</p>
Step 3:	<p>Select...</p> <p>Select...</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Polly.</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Transcribe.</p> <p>Store meeting audio recordings in an Amazon S3 bucket.</p> <p>Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.</p> <p>Summarize meeting text files by using Amazon Bedrock.</p> <p>Summarize meeting text files by using Amazon Lex.</p>

#### Answer:

Explanation:

Step 1:	<p>Select...</p> <p>Select...</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Polly.</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Transcribe.</p> <p>Store meeting audio recordings in an Amazon S3 bucket.</p> <p>Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.</p> <p>Summarize meeting text files by using Amazon Bedrock.</p> <p>Summarize meeting text files by using Amazon Lex.</p>
Step 2:	<p>Select...</p> <p>Select...</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Polly.</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Transcribe.</p> <p>Store meeting audio recordings in an Amazon S3 bucket.</p> <p>Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.</p> <p>Summarize meeting text files by using Amazon Bedrock.</p> <p>Summarize meeting text files by using Amazon Lex.</p>
Step 3:	<p>Select...</p> <p>Select...</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Polly.</p> <p>Convert meeting audio recordings to meeting text files by using Amazon Transcribe.</p> <p>Store meeting audio recordings in an Amazon S3 bucket.</p> <p>Store meeting audio recordings in an Amazon Elastic Block Store (Amazon EBS) volume.</p> <p>Summarize meeting text files by using Amazon Bedrock.</p> <p>Summarize meeting text files by using Amazon Lex.</p>

Reference:

Amazon Transcribe Developer Guide: Introduction to Amazon Transcribe (<https://docs.aws.amazon.com/transcribe/latest/dg/what-is.html>) AWS Bedrock User Guide: Text Generation and Summarization (<https://docs.aws.amazon.com/bedrock/latest/userguide/what-is-bedrock.html>) AWS AI Practitioner Learning Path: Module on Speech-to-Text and Generative AI Amazon S3 User Guide: Storing Data for Processing (<https://docs.aws.amazon.com/AmazonS3/latest/userguide>Welcome.html>)

## NEW QUESTION # 144

Which option is a disadvantage of using generative AI models in production systems?

- A. Negligible computational resource requirements
- B. Deterministic and consistent behavior
- C. Possible high accuracy and reliability
- D. Hallucinations and inaccuracies

### Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact AWS AI documents:

A known limitation of generative AI models is their tendency to hallucinate, meaning they may generate plausible but incorrect or fabricated information.

AWS generative AI guidance highlights:

Non-deterministic behavior

Risk of incorrect outputs

Need for validation, monitoring, and guardrails in production systems

Why the other options are incorrect:

High accuracy (A) is an advantage, not a disadvantage.

Deterministic behavior (B) is generally not true for generative models.

Negligible resource usage (C) is incorrect; generative models are resource-intensive.

AWS AI document references:

Generative AI Risks and Mitigations

Responsible Deployment of Foundation Models

Amazon Bedrock Guardrails Guidance

## NEW QUESTION # 145

A company makes forecasts each quarter to decide how to optimize operations to meet expected demand. The company uses ML models to make these forecasts.

An AI practitioner is writing a report about the trained ML models to provide transparency and explainability to company stakeholders.

What should the AI practitioner include in the report to meet the transparency and explainability requirements?

- A. Sample data for training
- B. Model convergence tables
- C. Code for model training
- D. Partial dependence plots (PDPs)

### Answer: D

Explanation:

Partial dependence plots (PDPs) are visual tools used to show the relationship between a feature (or a set of features) in the data and the predicted outcome of a machine learning model. They are highly effective for providing transparency and explainability of the model's behavior to stakeholders by illustrating how different input variables impact the model's predictions.

Option B (Correct): "Partial dependence plots (PDPs)": This is the correct answer because PDPs help to interpret how the model's predictions change with varying values of input features, providing stakeholders with a clearer understanding of the model's decision-making process.

Option A: "Code for model training" is incorrect because providing the raw code for model training may not offer transparency or explainability to non-technical stakeholders.

Option C: "Sample data for training" is incorrect as sample data alone does not explain how the model works or its decision-making process.

Option D: "Model convergence tables" is incorrect. While convergence tables can show the training process, they do not provide

insights into how input features affect the model's predictions.

AWS AI Practitioner Reference:

Explainability in AWS Machine Learning: AWS provides various tools for model explainability, such as Amazon SageMaker Clarify, which includes PDPs to help explain the impact of different features on the model's predictions.

## NEW QUESTION # 146

A company wants to use a large language model (LLM) on Amazon Bedrock for sentiment analysis. The company needs the LLM to produce more consistent responses to the same input prompt.

Which adjustment to an inference parameter should the company make to meet these requirements?

- A. Increase the temperature value
  - **B. Decrease the temperature value**
  - C. Decrease the length of output tokens
  - D. Increase the maximum generation length

**Answer: B**

## NEW QUESTION # 147

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